



Consulting Engineers & Geologists, Inc.

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MONITORING WELL LOG

MW-4

PROJ. NAME: Fir Haven Shell

PROJ. NUMBER: 001032

DRILLER: Mitchell Drilling

DRILLING METHOD: HSA

SAMPLER TYPE: CA Mod. Sp. Spoon

LOGGED BY: A. Melody

LOCATION: Miranda, CA

TOC ELEVATION: 340.11 Feet (NAVD 1988)

DEPTH OF BORING/WELL: 30.0 / 30.0 Feet BGS

DEPTH TO FIRST WATER: ~26.2 Feet BGS

SCREEN INTERVAL: 15.0-30.0 Feet BGS

DATE: 11/12/04



ELEVATION (feet NAVD 88)	DEPTH (Feet BGS)	WATER LEVEL	SAMPLE				USCS	Lithology Pattern	SOIL DESCRIPTION	REMARKS	MONITORING WELL CONSTRUCTION
			OVA Reading (ppm)	Recovery (%)	BLOWS / 6"	DRILLING LABORATORY					
340	0								GRAVEL cover, rounded, dry, loose, light grey		Flushmount Christy Box
	1						SM		SAND, fine, with silt, trace gravel, fine to coarse, subangular to subrounded, dense, dry, light brown		Locking Cap
	2										Concrete
	3										
	4										
	5										
335	6	0	0	6							Neat Cement
			100	15							
	7		100	20							
	8										
	9						ML		SILT, with sand, fine, trace clay, trace gravel, fine, subangular to subrounded, light brown, soft, dry, large greywacke sandstone in shoe		2" SCH 40 PVC Blank
	10		0	8							
330	11	0	50	15							
			100	50/6							
	12		100	50/6					SANDSTONE, greywacke, with calcite veins	Hard drilling 11.5-13.0	Bentonite Seal
	13										
	14						SM		SAND, fine, with fractured greywacke clasts, silty, dark grey, dry, loose to medium dense		#2/12 Monterey Sand
	15		0	10							
325	16	0	0	20							
			100	25							
	17		0	15							
			0	20							
	18	0	100	28					SILTSTONE, fractured/weathered, dark grey, dry, 50% as coarse, angular gravel clasts, with silt matrix		2" SCH 40 PVC Screen (0.010")

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

BORING LOG

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			OVA Reading (ppm)	Recovery (%)	BLOWS / 6"	DRILLING LABORATORY					
19	0	0	15								#2/12 Monterey Sand
	30	18									
	100	25									
20	0	20									
	90	22									
320	100	25					ML		SILT, with sand, fine, olive grey, damp to slightly moist, soft, clasts are weathered sandstone and siltstone with orange oxidation on fracture planes		
21	0	10									
	50	15									
22	100	18									
	0	12					SP		SAND, fine, weathered, possible cementation, damp, dense, light brown		
23	0	18									
	100	21									
24	100	40							SANDSTONE, fractured greywacke, with dark grey silt and fine sand, damp, olive grey, dense		2" SCH 40 PVC Screen (0.010")
	0	100	50/6								
25	0	10									
315	100	15									
26	0	100	18							DTW ~26.2' (11/13/04)	
	40	20									
27	100	50/6									
	0	50	30						SILTSTONE, weathered, dark grey, within a matrix of silt and trace of gravel, fine to coarse, subrounded		
28	100	50/6									
29											
30											Threaded PVC Endcap
310	31										
	32										
	33										
	34										
35									Total depth of boring = 30.0 Feet BGS		